



December 7, 2000
Project No. 97664V3

Ms. Brenda Pohlmann
Nevada Division of Environmental Protection
555 E. Washington, Suite 4300
Las Vegas, NV 89101-1049

PROVIDING

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling Services

RE: *Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.*

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on November 29, 2000 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 370 micrograms per Liter ($\mu\text{g/L}$). The NEL report is included with this letter, along with the Perchlorate Summary Table for 2000.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,
Geotechnical & Environmental Services, Inc.

Daniel C. Burns, C.E.M.*
#1692 (Expires 10/07/2001)
Project Manager

Gregory P. DeSart, P.E., C.E.M.
#1172 (Expires 12/22/2002)
President

* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

Enc: 2000 Perchlorate Summary Table
NEL Analytical Report

Dist: 1 faxed to addressee at 486-2863
1 original mailed to addressee
cc: fax to Jeff Gibson, American Pacific Corporation
cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105
cc: to project file 97664V3

7560 W. Sahara Ave., Suite 101 Las Vegas, NV 89117
(702) 365-1001 • Fax (702) 341-7120
www.gesnevada.com

**Las Vegas Wash at Northshore Road Bridge
2000 Summary of Perchlorate Concentrations**

Date Sampled	Perchlorate (µg/L)
1/27/00	569
2/28/00	720
3/29/00	870
4/27/00	750
5/30/00	740
6/28/00	410
7/27/00	650
8/28/00	510
9/27/00	430
10/26/00	340
11/29/00	370

NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Geotechnical & Env. Serv.
7560 West Sahara Ave. #101
Las Vegas, NV 89117
ATTN: Michael J. Kirk

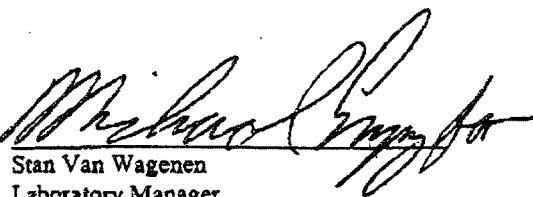
PROJECT NAME: FPF/97664 V3
PROJECT NUMBER: 97664 V3

NEL ORDER ID: L0011266

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/29/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.


Stan Van Wagenen
Laboratory Manager

12/6/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Geotechnical & Env. Serv.
PROJECT ID: FPF/97664 V3
PROJECT #: 97664 V3

CLIENT ID: North Shore Road Bridge
DATE SAMPLED: 11/29/00
NEL SAMPLE ID: L0011266-01

TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	370	40.	10	EPA 314	µg/L	12/5/00.

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: Geotechnical & Env. Serv.
PROJECT ID: FPF/97664 V3
PROJECT #: 97664 V3
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 001205CLO4-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	ND	4	1	EPA 314	µg/L	12/5/00

D.F. - Dilution Factor

ND - Not Detected

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Phoenix • Sacramento

Las Vegas Division • 4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577 • 888-368-3282

GES

Company: Attention:

Address:

7560 W. SATELITE #101 L.V., NV. 89117

Phone Number: 365-1001

Fax Number: 344-7120

Billing Address:

Expected Due Date: 12/16

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

Time/Date Sampled Customer Sample Identification NE.L. Identification

0830/11-28-00 NIGHT STONE ROAD BRIDGE

01

1 M E X

of Containers
Matrix (Box #1)
Preservative (Box #2)

PERCULOPATE

Remarks

CHAIN OF CUSTODY

NEL Work Order: 10011 1006

Project Name: FPF	Project Number: 97641 V3
Purchase Order Number: 1847	Sampled By: M. KIRK

Custody Seal Intact? ☒ Y ☐ N None Temp. 88
Condition when received good

Requested by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 MICHAEL J. KIRK	MJ Kirk	11-24-00/0900	T. Smoother	T. Smoother	11-24-00/0900
2					
3					

Box #1 DW - Drinking Water WW - Wastewater OL - Organic Liquid	SD - Solid AO - Aqueous A - Air	Box #2 A - HCl B - HNO ₃ C - H ₂ SO ₄ D - NaOH	E - Ice Only F - Other G - Not Preserved
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Liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for these samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

ORIGINAL